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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/610,551B

DATE: 08/05/2003

TIME: 15:39:44

Input Set : N:\Crf4\08042003\I610551.raw

Output Set: N:\CRF4\08052003\I610551B.raw

SEQUENCE LISTING

1 (1) GENERAL INFORMATION:

2 (i) APPLICANT: Barbas, Carlos F, III
 3 Burton, Dennis R
 4 Lerner, Richard A

5 (ii) TITLE OF INVENTION: METHODS FOR PRODUCING ANTIBODY LIBRARIES
 6 USING UNIVERSAL OR RANDOMIZED IMMUNOGLOBULIN LIGHT CHAINS

7 (iii) NUMBER OF SEQUENCES: 70

8 (iv) CORRESPONDENCE ADDRESS:

9 (A) ADDRESSEE: The Scripps Research Institute
 10 (B) STREET: 10666 North Torrey Pines Road, TPC8
 11 (C) CITY: La Jolla
 12 (D) STATE: CA
 13 (E) COUNTRY: USA
 14 (F) ZIP: 92037

15 (v) COMPUTER READABLE FORM:

16 (A) MEDIUM TYPE: Floppy disk
 17 (B) COMPUTER: IBM PC compatible
 18 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 19 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

20 (vi) CURRENT APPLICATION DATA:

C--> 21 (A) APPLICATION NUMBER: US/09/610,551B
 C--> 22 (B) FILING DATE: 05-Jul-2000
 23 (C) CLASSIFICATION:

24 (vii) PRIOR APPLICATION DATA:

W--> 25 (A) APPLICATION NUMBER: US 07/826,623
 26 (B) FILING DATE: 27-JAN-1992
 W--> 27 (A) APPLICATION NUMBER: US 08/174,674
 28 (B) FILING DATE: 28-DEC-1993
 W--> 29 (A) APPLICATION NUMBER: US 08/300,386
 30 (B) FILING DATE: 02-SEP-1994
 W--> 31 (A) APPLICATION NUMBER: US 08/931,645
 32 (B) FILING DATE: 16-SEP-1997

33 (viii) ATTORNEY/AGENT INFORMATION:

34 (A) NAME: Fitting, Thomas
 35 (B) REGISTRATION NUMBER: 34,163
 36 (C) REFERENCE/DOCKET NUMBER: TSRI 409.1

37 (ix) TELECOMMUNICATION INFORMATION:

38 (A) TELEPHONE: 858-554-2937
 39 (B) TELEFAX: 858-554-6312

40 (2) INFORMATION FOR SEQ ID NO: 1:

41 (i) SEQUENCE CHARACTERISTICS:

42 (A) LENGTH: 687 base pairs

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43         (B) TYPE: nucleic acid
44         (C) STRANDEDNESS: single
45         (D) TOPOLOGY: linear
46     (ii) MOLECULE TYPE: cDNA
47 (iii) HYPOTHETICAL: NO
48     (iv) ANTI-SENSE: NO
49     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
50     CTCGAGCAGT CTGGGGCTGA GGTGAAGAAG CCTGGGTCCT CGGTGAAGGT CTCCTGCAGG      60
51     GCTTCTGGAG GCACCTTCAA CAATTATGCC ATCAGCTGGG TGCGACAGGC CCCTGGACAA      120
52     GGGCTTGAGT GGATGGGAGG GATCTTCCCT TTCCGTAATA CAGCAAAGTA CGCACAACAC      180
53     TTCCAGGGCA GAGTCACCAT TACCGCGGAC GAATCCACGG GCACAGCCTA CATGGAGCTG      240
54     AGCAGCCTGA GATCTGAGGA CACGGCCATA TATTATTGTG CGAGAGGGGA TACGATTTTT      300
55     GGAGTGACCA TGGGATACCA CGTATGGAC GTCTGGGGCC AAGGGACCAC GGTACCCGTC      360
56     TCCGCAGCCT CCACCAAGGG CCCATCGGTC TTCCCCCTGG CACCCTCCTC CAAGAGCACC      420
57     TCTGGGGGCA CAGCGGCCCT GGGCTGCCTG GTCAAGGACT ACTTCCCCGA ACCGGTGACG      480
58     GTGTCGTGGA ACTCAGGCGC CCTGACCAGC GGCGTGCACA CCTTCCCGGC TGTCTACAG      540
59     TCCTCAGGAC TCTACTCCCT CAGCAGCGTG GTGACCGTGC CCTCCAGCAG CTTGGGCACC      600
60     CAGACCTACA TCTGCAACGT GAATCACAAG CCCAGCAACA CCAAGGTGGA CAAGAAAGCA      660
61     GAGCCCAAAT CTTGTGACAA AACTAGT                                687
62 (2) INFORMATION FOR SEQ ID NO: 2:
63     (i) SEQUENCE CHARACTERISTICS:
64         (A) LENGTH: 646 base pairs
65         (B) TYPE: nucleic acid
66         (C) STRANDEDNESS: single
67         (D) TOPOLOGY: linear
68     (ii) MOLECULE TYPE: cDNA
69 (iii) HYPOTHETICAL: NO
70     (iv) ANTI-SENSE: NO
71     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
72     GAGCTCACGC AGTCTCCAGC CACCCTGTCT TTGTCTCCAG GGGAAAGAGC CACCCTCTCC      60
73     TGCAGGGCCA GTCACAGTGT TAGCAGGGCC TACTTAGCCT GGTACCAGCA GAAACCTGGC      120
74     CAGGCTCCCA GGCTCCTCAT CTATGGTACA TCCAGCAGGG CCACTGGCAT CCCAGACAGG      180
75     TCCAGTGGCA GTGGGTCTGG GACAGACTTC ACTCTACCA TCAGCAGACT GGAGCCTGAA      240
76     GATTTTGCAG TGTACTACTG TCAGCAGTAT GGTGGCTCAC CGTGGTTCGG CCAAGGGACC      300
77     AAGGTGGAAC TCAAACGAAC TGTGGCTGCA CCATCTGTCT TCATCTTCCC GCCATCTGAT      360
78     GAGCAGTTGA AATCTGGAAC TGCCTCTGTT GTGTGCCTGC TGAATAACTT CTATCCCGA      420
79     GAGGCCAAAG TACAGTGGAA GGTGGATAAC GCCCTCCAAT CGGGTAACTC CCAGGAGAGT      480
80     GTCACAGAGC AGGACAGCAA GGACAGCACC TACAGCCTCA GCAGACCCT GACGCTGAGC      540
81     AAAGCAGACT ACGAGAAACA CAAAGTCTAC GCCTGCGAAG TCACCCATCA GGGCCTGAGT      600
82     TCGCCCGTCA CAAAGAGCTT CAACAGGGGA GAGTGTTAAT TCTAGA                                646
83 (2) INFORMATION FOR SEQ ID NO: 3:
84     (i) SEQUENCE CHARACTERISTICS:
85         (A) LENGTH: 21 base pairs
86         (B) TYPE: nucleic acid
87         (C) STRANDEDNESS: single
88         (D) TOPOLOGY: linear
89     (ii) MOLECULE TYPE: cDNA
90 (iii) HYPOTHETICAL: NO
91     (iv) ANTI-SENSE: NO

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94      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
95      GAATTCTAAA CTAGCTAGTC G
96
97 (2) INFORMATION FOR SEQ ID NO: 4:
98      (i) SEQUENCE CHARACTERISTICS:
99          (A) LENGTH: 21 base pairs
100         (B) TYPE: nucleic acid
101         (C) STRANDEDNESS: single
102         (D) TOPOLOGY: linear
103      (ii) MOLECULE TYPE: cDNA
104      (iii) HYPOTHETICAL: NO
105      (iv) ANTI-SENSE: YES
106      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
107      ATACTGCTGA CAGTAATACA C
108
109 (2) INFORMATION FOR SEQ ID NO: 5:
110      (i) SEQUENCE CHARACTERISTICS:
111          (A) LENGTH: 57 base pairs
112          (B) TYPE: nucleic acid
113          (C) STRANDEDNESS: single
114          (D) TOPOLOGY: linear
115      (ii) MOLECULE TYPE: cDNA
116      (iii) HYPOTHETICAL: NO
117      (iv) ANTI-SENSE: NO
118      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
119      TATTACTGTC AGCAGTATNN KNNKNNKNNK ACTTTCGGCG GAGGGACCAA GGTGGAG
120
121 (2) INFORMATION FOR SEQ ID NO: 6:
122      (i) SEQUENCE CHARACTERISTICS:
123          (A) LENGTH: 21 base pairs
124          (B) TYPE: nucleic acid
125          (C) STRANDEDNESS: single
126          (D) TOPOLOGY: linear
127      (ii) MOLECULE TYPE: cDNA
128      (iii) HYPOTHETICAL: NO
129      (iv) ANTI-SENSE: YES
130      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
131      AATACGACTC ACTATAGGGC G
132
133 (2) INFORMATION FOR SEQ ID NO: 7:
134      (i) SEQUENCE CHARACTERISTICS:
135          (A) LENGTH: 48 base pairs
136          (B) TYPE: nucleic acid
137          (C) STRANDEDNESS: single
138          (D) TOPOLOGY: linear
139      (ii) MOLECULE TYPE: cDNA
140      (iii) HYPOTHETICAL: NO
141      (iv) ANTI-SENSE: NO
142      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
143      TATTACTGTC AGCAGTATNN KNNKNNKNNK ACTTTCGGCG GAGGGACC
144
145 (2) INFORMATION FOR SEQ ID NO: 8:
146      (i) SEQUENCE CHARACTERISTICS:
147          (A) LENGTH: 60 base pairs

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148         (B) TYPE: nucleic acid
149         (C) STRANDEDNESS: single
150         (D) TOPOLOGY: linear
151     (ii) MOLECULE TYPE: cDNA
152     (iii) HYPOTHETICAL: NO
153     (iv) ANTI-SENSE: NO
154     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
155     TATTACTGTC AGCAGTATNN KNNKNNKNNK NNKACTTTCG GCGGAGGGAC CAAGGTGGAG      60
157 (2) INFORMATION FOR SEQ ID NO: 9:
158     (i) SEQUENCE CHARACTERISTICS:
159         (A) LENGTH: 51 base pairs
160         (B) TYPE: nucleic acid
161         (C) STRANDEDNESS: single
162         (D) TOPOLOGY: linear
163     (ii) MOLECULE TYPE: cDNA
164     (iii) HYPOTHETICAL: NO
165     (iv) ANTI-SENSE: NO
166     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
167     TATTACTGTC AGCAGTATNN KNNKNNKNNK NNKACTTTCG GCGGAGGGAC C      51
169 (2) INFORMATION FOR SEQ ID NO: 10:
170     (i) SEQUENCE CHARACTERISTICS:
171         (A) LENGTH: 75 base pairs
172         (B) TYPE: nucleic acid
173         (C) STRANDEDNESS: single
174         (D) TOPOLOGY: linear
175     (ii) MOLECULE TYPE: cDNA
176     (iii) HYPOTHETICAL: NO
177     (iv) ANTI-SENSE: NO
178     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
179     GATTTTGCAG TGTATTACTG TCAGCAGTAT NNKNNKNNKN NKNNKNNKAC TTTCGGCGGA      60
180     GGGACCAAGG TGGAG      75
182 (2) INFORMATION FOR SEQ ID NO: 11:
183     (i) SEQUENCE CHARACTERISTICS:
184         (A) LENGTH: 54 base pairs
185         (B) TYPE: nucleic acid
186         (C) STRANDEDNESS: single
187         (D) TOPOLOGY: linear
188     (ii) MOLECULE TYPE: cDNA
189     (iii) HYPOTHETICAL: NO
190     (iv) ANTI-SENSE: NO
191     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
192     TATTACTGTC AGCAGTATNN KNNKNNKNNK NNKNNKACTT TCGGCGGAGG GACC      54
194 (2) INFORMATION FOR SEQ ID NO: 12:
195     (i) SEQUENCE CHARACTERISTICS:
196         (A) LENGTH: 75 base pairs
197         (B) TYPE: nucleic acid
198         (C) STRANDEDNESS: single
199         (D) TOPOLOGY: linear
200     (ii) MOLECULE TYPE: cDNA

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201      (iii) HYPOTHETICAL: NO
202      (iv) ANTI-SENSE: NO
203      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
204          GATTTTGCAG TGTATTACTG TNNKNNKNNK NNNKNNKNNKNN NKNNKNNKNN KTTCGGCGGA      60
205          GGGACCAAGG TGGAG                                                    75
207 (2) INFORMATION FOR SEQ ID NO: 13:
208      (i) SEQUENCE CHARACTERISTICS:
209          (A) LENGTH: 70 base pairs
210          (B) TYPE: nucleic acid
211          (C) STRANDEDNESS: single
212          (D) TOPOLOGY: linear
213      (ii) MOLECULE TYPE: cDNA
214      (iii) HYPOTHETICAL: NO
215      (iv) ANTI-SENSE: YES
216      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
217          GTTCCACCTT GGTCCCTTGG CCGAAMNNMN NMNNMNNMNN MNNMNNMNNNA CAGTAGTACA      60
218          CTGCAAAATC                                                    70
220 (2) INFORMATION FOR SEQ ID NO: 14:
221      (i) SEQUENCE CHARACTERISTICS:
222          (A) LENGTH: 76 base pairs
223          (B) TYPE: nucleic acid
224          (C) STRANDEDNESS: single
225          (D) TOPOLOGY: linear
226      (ii) MOLECULE TYPE: cDNA
227      (iii) HYPOTHETICAL: NO
228      (iv) ANTI-SENSE: YES
229      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
230          GTTCCACCTT GGTCCCTTGG CCGAAMNNMN NMNNMNNMNN MNNMNNMNNM NNMNNACAGT      60
231          AGTACACTGC AAAATC                                                    76
233 (2) INFORMATION FOR SEQ ID NO: 15:
234      (i) SEQUENCE CHARACTERISTICS:
235          (A) LENGTH: 94 base pairs
236          (B) TYPE: nucleic acid
237          (C) STRANDEDNESS: single
238          (D) TOPOLOGY: linear
239      (ii) MOLECULE TYPE: cDNA
240      (iii) HYPOTHETICAL: NO
241      (iv) ANTI-SENSE: YES
242      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
243          GTTCCACCTT GGTCCCTTGG CCGAAMNNMN NMNNMNNMNN MNNMNNMNNM NNMNNMNNMN      60
244          NMNNMNNMNN MNNACAGTAG TACACTGCAA AATC                                                    94
246 (2) INFORMATION FOR SEQ ID NO: 16:
247      (i) SEQUENCE CHARACTERISTICS:
248          (A) LENGTH: 25 base pairs
249          (B) TYPE: nucleic acid
250          (C) STRANDEDNESS: single
251          (D) TOPOLOGY: linear
252      (ii) MOLECULE TYPE: cDNA
253      (iii) HYPOTHETICAL: NO

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/610,551B

DATE: 08/05/2003
TIME: 15:39:16

Input Set : N:\Crf4\08042003\I610551.raw
Output Set: N:\CRF4\08052003\I610551B.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 6

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/610,551B

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Input Set : N:\Crf4\08042003\I610551.raw

Output Set: N:\CRF4\08052003\I610551B.raw

L:21 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:22 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:27 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii)
L:29 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii)
L:31 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii)